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Consulting Scientists, Engineers, and Geologists

December 2, 2005

Mr. Craig Hunt, Water Resource Control Engineer
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5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

Via Overnight and E-mail

16017.01

Subject: *Ground Water Monitoring Report, Second Quarter 2005*
Georgia-Pacific California Wood Products Manufacturing Facility
90 West Redwood Avenue
Fort Bragg, California

Dear Mr. Hunt:

Enclosed please find a hard copy of *Ground Water Monitoring Report, Second Quarter 2005* for the Georgia-Pacific Corporation California Wood Products Manufacturing Facility located at 90 West Redwood Avenue, Fort Bragg, California

Please do not hesitate to call should you have any questions.

Very truly yours,

ACTON • MICKELSON • ENVIRONMENTAL, INC.



Michael A. Acton
Vice President

Enclosures: *Ground Water Monitoring Report, First Quarter 2005*

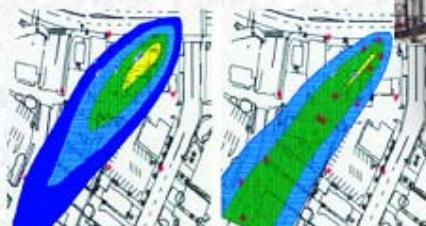
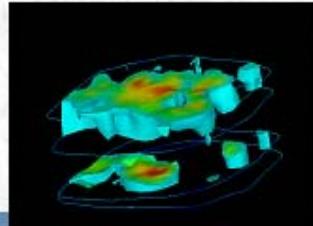
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Ground Water Monitoring Report, Second Quarter 2005

Georgia-Pacific Corporation California Wood Products Manufacturing Facility
90 West Redwood Avenue, Fort Bragg, California



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DECEMBER 2, 2005

GROUND WATER MONITORING REPORT

SECOND QUARTER 2005

PREPARED FOR

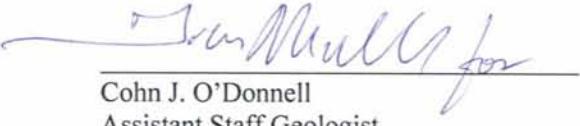
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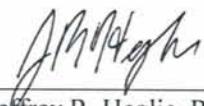
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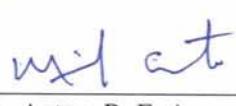
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DECEMBER 2, 2005

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1. INTRODUCTION

Georgia-Pacific Corporation (G-P) has authorized the preparation of this report for monitoring and sampling of ground water beneath the former G-P California Wood Products Manufacturing Facility (site; **Figures 1 and 2**) located at 90 West Redwood Avenue in Fort Bragg, California.

1.1 Objectives of Ground Water Monitoring

Work documented in this report was conducted to:

- Provide baseline ground water quality data by collecting and analyzing samples from available monitoring wells during a single event
- Determine if changes are necessary to the scope of future sampling events to more effectively and efficiently monitor ground water conditions

1.2 Site Description

The approximately 445-acre site is located west of Highway One along the Pacific Ocean coastline in the City of Fort Bragg, Mendocino County, California. It is bounded to the south by Noyo Bay, to the west by open coastline, and to the east by the City of Fort Bragg. The site was divided into ten parcels during previous investigations based on historical operations and land use. **Figure 2** is a site map showing the locations of parcels, major buildings, ponds, and other features.

2. SCOPE OF WORK

Field work for the second quarter 2005 ground water monitoring event was conducted between May 9 and 13, 2005.

2.1 Ground Water Monitoring Well Network

Samples collected during the second quarter 2005 monitoring event were taken from a monitoring well network (**Figure 3**) of 30 monitoring wells installed in six of the ten parcels. Most of these monitoring wells are less than 30 feet deep and screened across the water table (**Table 1**).

Also, for the second quarter 2005 sampling event only, three offsite monitoring wells (monitoring wells 1Stop-MW-01, 1Stop-MW-04, and 1Stop-MW-12) were sampled at the former One Stop gasoline service station (currently a Patriot gasoline service station) located east of the site approximately 500 feet from monitoring well MW-5.2. One monitoring well (monitoring well MW-10.3) was not sampled due to insufficient water in the casing during the second quarter 2005 sampling event.

2.2 Methodologies

Procedures used to measure ground water elevation and liquid phase hydrocarbons (LPH) thickness, purge monitoring wells, monitor field parameters, and collect, handle, and document ground water samples during this sampling event are presented in Appendix A. The work was performed in accordance with the Sampling and Analysis Plan (SAP) and Quality Assurance Plan (QAP), which are Appendices A and C of the Acton • Mickelson • Environmental, Inc. (AME) June 8, 2005 *Work Plan for Additional Site Assessment, Georgia-Pacific California Wood Products Manufacturing Facility*.

2.2.1 Ground Water Elevation and Liquid Phase Hydrocarbon Measurements

On May 9, 2005, prior to purging and sampling, measurements were collected from each monitoring well to determine the depth to water below the top of well casing and the thickness of LPH, if present. Measurements were made using an interface probe in accordance with procedures presented in the SAP. This instrument generates separate, distinct tones for LPH and water when the probe is lowered into the monitoring well, and is capable of detecting LPH thicknesses of 0.01 foot or more. These measurements were corrected to elevations relative to mean sea level (msl) by subtracting the depth to water from the elevation of the top of each monitoring well casing. The interface probe was decontaminated prior to use in each monitoring well gauged.

2.2.2 Ground Water Monitoring Well Purgung, Sampling, and Analysis

Each of the monitoring wells was purged using a peristaltic pump and low-flow methods. Purge rates were maintained at approximately 0.25 gallon per minute (gpm). To reduce the possibility of cross-contamination, dedicated peristaltic pump tubing was used to purge and sample each monitoring well. Dedicated discharge tubing was used for each monitoring well.

To determine when water chemistry had stabilized and low-flow purging was producing water representative of aquifer conditions, field measurements were made for pH, temperature, turbidity, specific conductance, dissolved oxygen (DO), and oxidation reduction potential (ORP). Measurements of these parameters were collected using a Horiba U-22XD water quality meter.

Ferrous iron concentrations were also determined in the field for each monitoring well using a Hach Model IR-18C Ferrous Iron Test Kit. These tests were conducted at the conclusion of the purging of each monitoring well by collecting a water sample from the pump discharge tube.

Measurements of field parameters and other relevant information for each monitoring well were recorded on Well Sampling/Development Information forms. Copies of these forms, along with ground water level measurement and instrument calibration data, are presented in Appendix B.

Following monitoring well purging, ground water samples were collected directly from the pump discharge tubing into the appropriate containers. The sample containers provided by the analytical laboratory were pre-washed, prepared, and supplied with preservatives in accordance with analytical laboratory quality assurance/quality control (QA/QC) protocols. Ground water samples for dissolved metals were filtered in the field with disposable 0.45-micron inline cartridge filters.

After placing ground water samples in appropriate containers, each was immediately labeled with the sample number, time, date, sampler's name, and preservative. The sample containers were then placed in coolers containing water ice along with a temperature blank and the chain-of-custody form pending delivery to the laboratory. Copies of chain-of-custody forms are included in Appendix C.

Ground water samples were submitted to Curtis & Tompkins Ltd. in Berkeley, California, a laboratory certified by the California Department of Health Services for analysis for the following:

- Total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), and total petroleum hydrocarbons as motor oil (TPHo) by United States Environmental Protection Agency (EPA) Method 8015B. Samples submitted for analysis of TPHd and TPHo were prepared with silica gel cleanup (SGCU) by EPA Method 3630C and results were reported to the method detection limit (MDL).
- Volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary-butyl ether (MTBE), ethanol, and isopropanol by EPA Method 8260B. Results were reported to the MDL

- Semi-volatile organic compounds (SVOCs) by EPA Method 8270C, with results reported to the MDL
- Polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8310, with results reported to the MDL
- Polychlorinated biphenyls (PCBs) congeners by EPA Method 8082, with results reported to the MDL
- Dissolved metals by EPA Method 6020B or 7470A with results reported to the laboratory reporting limit (RL)

Copies of laboratory reports for samples collected during this ground water monitoring event are presented in Appendix C of this report.

2.2.3 Quality Assurance/Quality Control

QA/QC procedures outlined in the QAP were adhered to during the sampling events QC samples, including trip blanks, field duplicates, and matrix spike/matrix spike duplicates (MS/MSDs) were collected, submitted, and analyzed in accordance with the QAP.

Laboratory data were validated based on data quality objectives and parameters presented in the QAP. Included in this validation process was evaluation of the following criteria:

- Specified RLs
- Field duplicate and primary sample relative percent differences (RPDs)
- Trip blanks
- Sample temperatures upon laboratory receipt
- Sample preservation
- Holding times
- Laboratory blanks
- Surrogate spike results
- MS/MSD results
- Laboratory control sample RPDs and recovery rates

Based on the results of the data validation process, samples may be qualified with the following flags:

- u – the reported analyte was not detected
- j – the reported result is an estimated value
- uj – the reported analyte was not detected and the RL is an estimated value
- r – the reported result is rejected and is unusable

Ground water sample analytical reports are in Appendix C, and additional information regarding the application of data validation qualifiers is presented in Appendix D.

2.2.4 Investigation Derived Waste

Waste fluids resulting from monitoring activities, including decontamination fluids and well purge water, were temporarily contained in portable plastic tanks in the sampling trucks. These fluids were transferred to a storage tank for on-site storage pending characterization. Solid waste items, including paper, plastic, cardboard, and used vinyl gloves were contained in plastic trash bags and disposed in a dumpster provided at the site.

3. RESULTS

3.1 Ground Water Elevation and Liquid Phase Hydrocarbon Measurements

Depth to ground water and LPH thickness was measured in the monitoring wells on May 9, 2005. No ground water monitoring wells contained detectable levels of LPH during this monitoring event. **Table 2** is a compilation of current and historical ground water level and LPH measurements. Ground water elevations are provided relative to msl.

On May 9, 2005, depth to ground water for the site ranged from 0.71 foot below ground surface (bgs) in MW-3.6, to 27.11 feet bgs in MW-10.3. Ground water elevations ranged from 19.00 feet msl in monitoring well MW-4.1 to 69.36 feet msl in monitoring well MW-3.3 (**Table 2; Figure 4**).

Figure 4 is the ground water elevation contour map for May 9, 2005. The inferred ground water flow direction for the site was generally toward the Pacific Ocean, with the ground water elevation contours broadly reflecting the site topography. Where constrained by data from monitoring wells, the inferred horizontal hydraulic gradient ranged from approximately 0.02 to 0.04.

3.2 General Ground Water Quality

3.2.1 General Ground Water Quality Parameters

General ground water quality parameters include temperature, pH, specific conductance, DO, ORP, ferrous iron, and turbidity. Measurements of these parameters and other relevant information for each monitoring well are recorded on the Sampling/Development Information forms (Appendix B).

3.2.2 Total Petroleum Hydrocarbons, Benzene, Toluene, Ethylbenzene, Xylenes, and Methyl Tertiary-Butyl Ether

Ground water analytical data for TPHg, TPHd, TPHo, BTEX, and MTBE are in **Table 3**.

3.2.2.1 Total Petroleum Hydrocarbons as Gasoline

TPHg was reported at less than the RL of 50 micrograms per liter ($\mu\text{g}/\text{L}$) in all samples analyzed.

3.2.2.2 Total Petroleum Hydrocarbons as Diesel

TPHd was reported at less than the MDL of between 13 and 21 $\mu\text{g}/\text{L}$ (with SGCU) in all except four of the samples analyzed. In the samples collected from monitoring wells MW-3.1, MW-3.2, MW-5.1, and MW-5.7, reported TPHd concentrations ranged from 29 to 120 $\mu\text{g}/\text{L}$. Monitoring wells MW-3.1 and MW-3.2 are located near the Former Mobile Equipment Shop in Parcel 3, monitoring well MW-5.1 is located on the northwest corner of the Mobile Equipment Shop in

Parcel 5, and monitoring well MW-5.7 is located to the southeast of Former Sawmill #1 in Parcel 5 (**Figure 3**).

3.2.2.3 Total Petroleum Hydrocarbons as Motor Oil

TPHo was reported at less than the MDL of between 33 and 76 µg/L (with SGCU) in all of the samples analyzed, except for 290 µg/L in the sample from monitoring well MW-4.3. Monitoring well MW-4.3 is located in the central portion of Parcel 4 (**Figure 3**).

3.2.2.4 Benzene

Benzene was reported at less than the MDL of between 0.04 and 0.06 µg/L in all except two of the samples analyzed. A concentration of 0.1 J (estimated) µg/L was reported in the sample from monitoring well MW-3.1, which is located near the Former Mobile Equipment Shop in Parcel 3, and a concentration of 1 µg/L was reported in the sample from monitoring well MW-5.1, which is located on the northwest corner of the Mobile Equipment Shop in Parcel 5 (**Figure 3**). Benzene was also reported at a concentration of 0.2 J µg/L in the sample collected from offsite monitoring well 1Stop-MW-04.

3.2.2.5 Toluene

Toluene was reported at less than the MDL of between 0.06 and 0.1 µg/L in all except four of the samples analyzed. Reported toluene concentrations were all between the MDL and the quantitation limit (QL), and ranged from 0.1 J to 0.2 J µg/L in the four samples.

3.2.2.6 Ethylbenzene

Ethylbenzene was reported at less than the MDL of 0.06 to 0.07 µg/L in all of the samples analyzed, except for 0.2 J µg/L in the sample from monitoring well MW-5.1, which is located on the northwest corner of the Mobile Equipment Shop in Parcel 5 (**Figure 3**).

3.2.2.7 Xylenes

M,p and o-xylenes were reported at less than the respective MDLs in all samples analyzed, except for 0.1 J µg/L m,p-xylenes in the sample collected from monitoring well MW-4.3.

3.2.2.8 Methyl Tertiary-Butyl Ether

MTBE was reported at greater than the MDL of 0.05 to 0.2 µg/L in 11 of the samples analyzed, which include the primary and duplicate samples collected at monitoring well MW-5.5. Reported MTBE concentration greater than the QL included 0.7 µg/L in the sample from monitoring well MW-3.7, which is located in the southern end of Former Planer #1 in Parcel 3, and 1.6 µg/L in the sample from monitoring MW-5.7, which is located to the southeast of the Former Sawmill #1 in Parcel 5 (**Figure 3**). MTBE was also reported at a concentration of 0.3 J µg/L in the sample collected from offsite monitoring well 1Stop-MW-04.

3.2.3 Volatile Organic Compounds

Laboratory analytical results for VOCs are in **Table 4**. Results include reported concentrations greater than the respective MDLs in samples from monitoring wells MW-3.1, MW-3.2, and MW-3.3, which are in the Former Mobile Equipment Shop area in Parcel 3; monitoring well MW-3.4 near the Plant Supply and Machine Shop in Parcel 3; monitoring wells MW-3.7 and MW-3.8 in Former Planer #1 in Parcel 3; monitoring wells MW-5.1 through MW-5.5, which are near the Mobile Equipment Shop located south of Pond 5 in Parcel 5; and monitoring wells MW-10.1, MW-10.2, and MW-10.4 in Parcel 10 (**Figure 3**). Reported concentrations of VOCs in the ground water samples from the remaining monitoring wells were less than the respective MDLs.

Reported concentrations of 1,1-dichloethane (1,1-DCA) greater than the MDL ranged from 0.2 J µg/L in the sample from monitoring well MW-3.7 up to 2.2 µg/L in the primary sample from monitoring well MW-3.1. A total of 6 of the ground water samples contained reported concentrations of 1,1-DCA greater than the MDL; these samples were collected from monitoring wells MW-3.1, MW-3.2, MW-3.3 (primary and duplicate samples), MW-3.7, and MW-5.3.

Cis-1,2-dichloethene (cis-1,2-DCE) was reported at greater than the MDL in samples obtained from monitoring wells MW-3.1, MW-3.2, MW-3.3, MW-5.1, and MW-5.3, with concentrations up to 3.4 µg/L in the sample collected from monitoring well MW-3.2.

Freon 113 was reported in the primary and duplicate samples obtained from monitoring well MW-3.3 at concentrations of 8.5 and 9.1 µg/L, respectively. Reported concentrations of Freon 113 in the ground water samples obtained from the remaining monitoring wells were less than the MDL.

Naphthalene was reported at concentrations of 1.2 J and 3.4 µg/L in the samples collected from monitoring wells MW-5.1 and MW-5.3, respectively. Reported naphthalene concentrations in the ground water samples obtained from the remaining monitoring wells were less than the MDL.

Reported tetrachloroethene (PCE) concentrations were greater than the MDL in the samples from monitoring wells MW-3.1, MW-3.2, MW-3.3 (primary and duplicate samples), and MW-5.1. Reported concentrations greater than the MDL ranged from 0.5 µg/L in the sample from monitoring well MW-5.1 to 1.9 µg/L in the primary sample from monitoring well MW-3.3. The reported PCE concentrations in the ground water samples obtained from the remaining monitoring wells were less than the MDL.

1,1,1-trichloroethane (1,1,1-TCA) was reported at less than the MDL in all samples analyzed except for 8.1 and 7.3 µg/l in the primary and duplicate samples, respectively, from monitoring well MW-3.3.

Trichloroethene (TCE) was reported at greater than the MDL in samples obtained from monitoring wells MW-3.1, MW-3.2, MW-3.3 (primary and duplicate samples), and MW-5.1, with concentrations ranging up to 2.9 µg/L in the sample obtained from monitoring well MW-5.1.

Other volatile organic compounds reported at greater than the MDL include acetone (ranging up to 1.3 J µg/L in the sample from monitoring well MW-10.4), carbon disulfide (0.9 µg/L in the sample from monitoring well MW-3.4), chloroethane (0.8 J µg/L in the sample from monitoring well MW-5.3), chloroform (0.3 J µg/L in the primary and duplicate samples from monitoring well MW-3.3), and 1,1-dichloroethene (1,1-DCE, 0.4 J µg/L in the primary and duplicate samples from monitoring well MW-3.3). In the sample from MW-5.1, five alkylbenzene compounds were reported between the MDL and the QL. The alkylbenzene compound sec-butylbenzene was reported at concentrations of 0.3 J and 0.1 J µg/L in the samples from monitoring wells MW-3.2 and MW-5.1, respectively.

In the samples from the offsite monitoring wells at One Stop, PCE was reported at concentrations ranging from 17 to 57 µg/L. Other volatile organic compounds reported at greater than the MDL include cis-1,2-DCE (ranging up to 0.6 µg/L in the sample from monitoring well 1Stop-MW-04), naphthalene (0.3 J µg/L in the sample from monitoring well 1Stop-MW-04), TCE (ranging up to 0.8 µg/L in the samples from monitoring wells 1Stop-MW-04 and 1Stop-MW-12), and chloroform (0.3 J µg/L in the sample from monitoring well 1Stop-MW-01).

3.2.4 Semi-volatile Organic Compounds

Reported concentrations of SVOCs were reported at less than the respective MDLs in all except two of the samples analyzed (**Table 5**). Naphthalene was reported at concentrations of 1 J and 2.3 J µg/L in the samples from monitoring wells MW-5.1 and MW-5.3, respectively. In the sample from monitoring well MW-5.1, benzoic acid was also reported at a concentration of 0.79 J µg/L.

In the sample collected from offsite monitoring well 1Stop-MW-12, bis(2-ethylhexyl)phthalate was reported at a concentration of 5.1 J µg/L.

3.2.5 Polynuclear Aromatic Hydrocarbons

Laboratory analytical results for PAHs are in **Table 6**. Results include reported concentrations greater than the respective MDLs in samples from monitoring wells MW-3.1 and MW-3.2, which are in the Former Mobile Equipment Shop area in Parcel 3; monitoring wells MW-5.1 and MW-5.3, which are near the Mobile Equipment Shop located south of Pond 5 in Parcel 5; and monitoring well MW-5.7, which is located to the southeast of the Former Sawmill #1 in Parcel 5 (Figure 3).

Fluoranthene and fluorine were reported at less than the MDL in all samples analyzed except for 0.02 J and 0.36 µg/l, respectively, in the sample from monitoring well MW-5.1.

Naphthalene was reported at concentrations of 6.1, 1.1 and 3.5 µg/L in the samples collected from monitoring wells MW-3.2, MW-5.1 and MW-5.3, respectively. Reported naphthalene concentrations in the ground water samples obtained from the remaining monitoring wells were less than the MDL.

Phenanthrene was reported at less than the MDL in all samples analyzed except for 0.22 and 0.08 J µg/l, respectively, in the samples from monitoring wells MW-5.1 and MW-5.7. Pyrene was reported at less than the MDL in all samples analyzed except for 0.05 J µg/l in the sample from monitoring well MW-3.2.

3.2.6 Polychlorinated Biphenyls

Reported concentrations of PCBs were less than the respective MDLs (**Table 7**).

3.2.7 Organochlorine Pesticides

Table 8 provides a summary of historical results for organochlorine pesticides.

3.2.8 Dissolved Metals

Laboratory analytical results for dissolved metals are in **Table 9**. They include reported concentrations of antimony, arsenic, barium, chromium, cobalt, copper, molybdenum, nickel, thallium, vanadium, and zinc greater than the respective RLs. Concentrations of the remaining dissolved metals were less than the respective RLs.

Antimony was reported at concentrations of 1.6 and 1.1 µg/L in samples from monitoring wells MW-3.5 and MW-5.9, respectively. Reported concentrations in samples from the remaining monitoring wells were less than the RL.

Reported concentrations of arsenic ranged from less than the RL to 14 µg/L. The maximum reported arsenic concentrations were 11 µg/L in the primary and duplicate samples from MW-5.5, which is located southwest of the Fuel Storage and Dispenser in Parcel 5, and 14 µg/L in the sample from monitoring well MW-5.7, which is located southeast of Former Sawmill #1 (**Figure 3**).

Reported concentrations of barium ranged from less than the RL to 3,100 µg/L in the sample from monitoring well MW-4.1 in Parcel 4.

Chromium was reported at concentrations ranging from less than the RL to 2.2 µg/L in the sample from monitoring well MW-5.3, which is located southwest of the Mobile Equipment Shop in Parcel 5 (**Figure 3**).

Reported concentrations of cobalt were less than the RL in all except samples from three of the monitoring wells. The maximum reported concentration was 3.7 µg/L in the sample from monitoring well MW-5.6.

Reported concentrations of copper ranged from less than the RL to 2.8 µg/L in the sample from monitoring well MW-5.4 in Parcel 5.

Reported concentrations of molybdenum were less than the RL, except for the sample from monitoring well MW-3.5 in Parcel 3 at a concentration of 1.3 µg/L.

Reported concentrations of nickel were less than the RL in all except samples from five of the monitoring wells. The maximum reported concentration was 2.2 µg/L in the primary and duplicate samples from monitoring well MW-5.5.

Reported concentrations of thallium were less than the RL, except for the sample from monitoring well MW-5.9 in Parcel 5 at a concentration of 1.3 µg/L.

Vanadium was reported at concentrations ranging from less than the RL to 3.6 µg/L in the sample from monitoring well MW-3.4, which is located near the Plant Supply and machine shop in Parcel 3 (**Figure 3**).

Reported concentrations of zinc ranged from 1.8 to 21 µg/L, with the maximum concentration in the sample from MW-4.1 in Parcel 4.

In the samples from the offsite monitoring wells at One Stop, concentrations greater than the RL were reported for arsenic, barium, chromium, copper, nickel, vanadium, and zinc.

3.2.9 Tannin and Lignin

Table 10 provides a summary of historical results for tannin and lignin.

3.3 Data Validation Results

Data validation was performed using procedures outlined in the QAP. Data qualifiers appended to the laboratory results have been added to the tables summarizing the ground water analytical data. Copies of data validation summary reports are included in Appendix D.

Analytical results of trip blank and equipment blank samples indicate that field QC measures were properly implemented. The results of the data validation process indicate that most QC criteria, including holding times, instrument checks, sample temperatures, calibration, blanks, duplicates, spikes, standards, and RLs were met by the laboratory.

In general, the overall assessment of the analytical results indicates that data are acceptable and usable. A portion of the data was qualified due to method blank and trip blank contamination, particularly for acetone and methylene chloride, which are common artifacts of laboratory analysis. The impact of these deviations is that some of the reported laboratory values have been qualified as not detected (i.e., flagged “u”).

In general, validation of the laboratory reports indicated that the majority of laboratory data meet the QAP-specified criteria for precision, accuracy, representativeness, comparability, and completeness. No systemic laboratory QC issues were identified, and no corrective actions were required.

4. SUMMARY AND CONCLUSIONS

No ground water monitoring wells contained detectable levels of LPH during this monitoring event. The inferred ground water flow direction for the site was generally toward the Pacific Ocean.

Reported concentrations of TPHg were less than the RL. TPHd was reported at less than the MDL in all except four of the samples analyzed, with the maximum reported TPHd concentration of 120 µg/L in the sample from monitoring well MW-3.2. TPHo was reported at less than the MDL in all of the samples analyzed, except for 290 µg/L in the sample from monitoring well MW-4.3.

Benzene was reported at less than the MDL in all except two of the samples analyzed. A concentration of 0.1 J µg/L was reported in the sample from monitoring well MW-3.1, and a concentration of 1 µg/L was reported in the sample collected from monitoring well MW-5.1. MTBE was reported at greater than the MDL in 11 of the samples analyzed, with a maximum reported concentration of 1.6 µg/L in the sample from monitoring MW-5.7.

Reported concentrations of other VOCs were greater than the MDLs in samples from monitoring wells MW-3.1, MW-3.2, MW-3.3, MW-3.4, MW-3.7, MW-5.1, MW-5.3, MW-10.1, MW-10.2, and MW-10.4. The VOCs with reported concentrations greater than the MDLs included 1,1-DCA, cis-1,2-DCE, Freon 113, naphthalene, PCE, 1,1,1-TCA, TCE. Less frequently reported were acetone, carbon disulfide, chloroethane, chloroform, 1,1-DCE, and alkylbenzenes. Reported concentrations of VOCs were less than the respective MDLs.

Reported concentrations of PAHs were greater than the respective MDLs in samples from monitoring wells MW-3.1, MW-3.2, MW-5.1, MW-5.3, and MW-5.7. The PAHs with reported concentrations greater than the MDLs included fluoranthene, fluorine, naphthalene, phenanthrene, and pyrene.

Concentrations of SVOCs reported above the MDLs were limited to naphthalene in two samples and benzoic acid in one sample. Reported concentrations of PCBs were less than the respective MDLs.

Laboratory analytical results of ground water samples collected for dissolved metals included reported concentrations of antimony, arsenic, barium, chromium, cobalt, copper, molybdenum, nickel, thallium, vanadium, and zinc greater than the respective RLs. Concentrations of the remaining dissolved metals were less than the respective RLs.

5. RECOMMENDATIONS

Quarterly monitoring will continue at the site. Analytical parameters for the second quarter 2005 monitoring event will include TPHg, TPHd, and TPHo with SGCU, VOCs, SVOCs, PAHs, PCBs, and dissolved metals. The PCB analysis will include specific congeners. Analyses for TPHd, TPHo, VOCs, SVOCs, PAHs, and PCB congeners will continue to be reported to the MDL.

6. REMARKS

This ground water monitoring report represents our professional opinions, which are based in part on client-supplied and currently available information and are arrived at in accordance with accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended. This ground water monitoring report was prepared solely for the use of our client. Any reliance on the information contained in the ground water monitoring report by third parties shall be at such parties' sole risk.

7. REFERENCES

AME. 2005. *Work Plan for Additional Site Assessment, Georgia-Pacific California Wood Products Manufacturing Facility*. Includes Appendix A, Sampling and Analysis Plan, Appendix B, Quality Assurance Plan. June 9.

TABLE 1
MONITORING WELL CONSTRUCTION DETAILS
 Georgia-Pacific California Wood Products Manufacturing Facility
 90 West Redwood Avenue, Fort Bragg, California

Well	Parcel	East (feet)	North (feet)	Casing Elevation (feet)	Top of Screen (feet bgs)	Bottom of Screen (feet bgs)	Screen Length (feet)	Top of Filter (feet bgs)	Bottom of Filter (feet bgs)
MW-2.1	2	6050175.99	2294112.70	60.79	5	19.75	14.75	4	20
MW-2.2	2	6050176.56	2293835.20	60.70	5	19.75	14.75	4	20
MW-2.3	2	6050284.88	2293863.53	62.67	5	19.75	14.75	4	20
MW-3.1	3	6050981.83	2293457.19	76.07	4.5	24.25	19.75	3.5	24.5
MW-3.2	3	6051068.66	2293461.33	76.18	8	23.25	15.25	7	25
MW-3.3	3	6051082.54	2293300.43	74.22	5	24.75	19.75	4	25
MW-3.4	3	6051191.86	2292715.89	60.84	4.1	9.75	5.65	4	11
MW-3.5	3	6051183.42	2292653.44	59.40	2.5	12.5	10	2	13
MW-3.6	3	6051126.72	2292593.43	57.61	2.5	12.5	10	2	13
MW-3.7	3	6050447.13	2293206.57	63.24	5	24.75	19.75	4	25
MW-3.8	3	6050449.99	2293534.60	63.44	5	24.75	19.75	4	25
MW-3.9	3	6050485.92	2293591.22	63.32	5	19.75	14.75	4	20
MW-4.1	4	6050111.01	2292087.14	22.91	2	27.25	25.25	1.5	30
MW-4.2	4	6050191.46	2292228.96	28.12	4	28.75	24.75	3	30
MW-4.3	4	6050297.47	2292132.93	25.19	3	29.75	26.75	2	30
MW-4.4	4	6050432.95	2292123.60	26.54	5	29.75	24.75	4	30
MW-5.1	5	6051249.88	2291773.24	58.32	5	24.75	19.75	4	25
MW-5.2	5	6051356.28	2291788.43	59.61	5	24.75	19.75	4	26
MW-5.3	5	6051200.92	2291538.19	56.71	5	29.75	24.75	4	30
MW-5.4	5	6051316.86	2291493.40	58.99	5	29.75	24.75	4	30
MW-5.5	5	6051198.46	2291367.85	57.56	5	29.75	24.75	4	30
MW-5.6	5	6050856.11	2292202.54	50.07	5	24.75	19.75	4	25
MW-5.7	5	6050760.50	2292109.14	44.83	5	34.75	29.75	4	35
MW-5.8	5	6050664.80	2292295.12	45.62	2	19.75	17.75	1.5	20
MW-5.9	5	6050562.23	2292112.94	31.32	5	24.75	19.75	4	25
MW-7.1	7	6049756.55	2290878.73	54.03	5	14.75	9.75	4	15
MW-10.1	10	6049208.77	2288773.88	78.82	15	29.75	14.75	12	30
MW-10.2	10	6048962.69	2289267.80	70.69	4	12.75	8.75	3	14
MW-10.3	10	6048746.19	2288475.51	71.62	16	24.75	8.75	15	25
MW-10.4	10	6048641.98	2288994.46	73.42	18	29.75	11.75	17	30

Notes

Casing elevation is the measuring point for ground water levels (in mean sea level).

East and north horizontal coordinates are in California Coordinate System, North American Datum 1983.

bgs = below ground surface

TABLE 2

GROUND WATER ELEVATION DATA
 Georgia-Pacific California Wood Products Manufacturing Facility
 90 West Redwood Avenue, Fort Bragg, California

Location	Date	Reference Elevation (feet)	Depth To Water	Depth To LPH (feet)	LPH Thickness (feet)	Ground Water Elevation (feet)	Notes
MW-2.1	1/29/2004	60.79	4.52			56.27	
	6/23/2004	60.79	5.26			55.53	
	9/22/2004	60.79	5.96			54.83	
	12/7/2004	60.79	5.56			55.23	
	3/28/2005	60.79	4.29			56.50	
	5/9/2005	60.79	4.41			56.38	
MW-2.2	1/29/2004	60.70	2.90			57.80	
	6/23/2004	60.70	4.23			56.47	
	9/22/2004	60.70	5.35			55.35	
	12/7/2004	60.70	4.40			56.30	
	3/28/2005	60.70	2.46			58.24	
	5/9/2005	60.70	4.16			56.54	
MW-2.3	1/29/2004	62.67	4.29			58.38	
	6/23/2004	62.67	5.44			57.23	
	9/22/2004	62.67	6.63			56.04	
	12/7/2004	62.67	5.87			56.80	
	3/28/2005	62.67	3.96			58.71	
	5/9/2005	62.67	2.81			59.86	
MW-3.1	1/28/2004	76.07	6.50			69.57	
	6/24/2004	76.07	8.84			67.23	
	9/22/2004	76.07	10.26			65.81	
	12/7/2004	76.07	9.89			66.18	
	3/28/2005	76.07	6.61			69.46	
	5/9/2005	76.07	6.85			69.22	
MW-3.2	1/28/2004	76.18	6.57			69.61	
	6/24/2004	76.18	8.92			67.26	
	9/22/2004	76.18	10.31			65.87	
	12/7/2004	76.18	9.96			66.22	
	3/28/2005	76.18	6.67			69.51	
	5/9/2005	76.18	6.91			69.27	
MW-3.3	1/28/2004	74.22	4.70			69.52	
	6/24/2004	74.22	6.97			67.25	
	9/22/2004	74.22	8.28			65.94	
	12/7/2004	74.22	7.75			66.47	
	3/28/2005	74.22	4.58			69.64	
	5/9/2005	74.22	4.86			69.36	
MW-3.4	1/28/2004	60.84	1.38			59.46	
	6/24/2004	60.84	2.10			58.74	
	9/22/2004	60.84	3.72			57.12	
	12/7/2004	60.84	3.76			57.08	
	3/28/2005	60.84	1.51			59.33	
	5/9/2005	60.84	1.18			59.66	
MW-3.5	1/28/2004	59.40	1.63			57.77	
	6/24/2004	59.40	2.91			56.49	
	9/22/2004	59.40	3.93			55.47	
	12/7/2004	59.40	2.95			56.45	
	3/28/2005	59.40	1.51			57.89	
	5/9/2005	59.40	1.35			58.05	

TABLE 2

GROUND WATER ELEVATION DATA
 Georgia-Pacific California Wood Products Manufacturing Facility
 90 West Redwood Avenue, Fort Bragg, California

Location	Date	Reference Elevation (feet)	Depth To Water	Depth To LPH (feet)	LPH Thickness (feet)	Ground Water Elevation (feet)	Notes
MW-3.6	1/28/2004	57.61	1.05			56.56	
	6/24/2004	57.61	2.15			55.46	
	9/22/2004	57.61	2.55			55.06	
	12/7/2004	57.61	2.22			55.39	
	3/28/2005	57.61	0.74			56.87	
	5/9/2005	57.61	0.71			56.90	
MW-3.7	1/28/2004	63.24	6.52			56.72	
	6/24/2004	63.24	7.70			55.54	
	9/22/2004	63.24	9.63			53.61	
	12/7/2004	63.24	8.65			54.59	
	3/28/2005	63.24	5.75			57.49	
	5/9/2005	63.24	5.83			57.41	
MW-3.8	1/28/2004	63.44	4.58			58.86	
	6/24/2004	63.44	5.61			57.83	
	9/22/2004	63.44	7.19			56.25	
	12/7/2004	63.44	6.40			57.04	
	3/28/2005	63.44	3.89			59.55	
	5/9/2005	63.44	4.10			59.34	
MW-3.9	1/28/2004	63.32	4.09			59.23	
	6/24/2004	63.32	5.01			58.31	
	9/22/2004	63.32	6.61			56.71	
	12/7/2004	63.32	5.90			57.42	
	3/28/2005	63.32	3.87			59.45	
	5/9/2005	63.32	3.85			59.47	
MW-4.1	1/28/2004	22.91	3.96			18.95	
	6/23/2004	22.91	6.15			16.76	
	9/22/2004	22.91	7.31			15.60	
	12/7/2004	22.91	4.95			17.96	
	3/28/2005	22.91	3.78			19.13	
	5/9/2005	22.91	3.91			19.00	
MW-4.2	1/28/2004	28.12	6.25			21.87	
	6/23/2004	28.12	8.96			19.16	
	9/22/2004	28.12	11.58			16.54	
	12/7/2004	28.12	7.07			21.05	
	3/28/2005	28.12	5.50			22.62	
	5/9/2005	28.12	5.89			22.23	
MW-4.3	1/28/2004	25.19	3.10			22.09	
	6/24/2004	25.19	5.67			19.52	
	3/28/2005	25.19	2.69			22.50	
	5/9/2005	25.19	3.10			22.09	
MW-4.4	1/28/2004	26.54	2.89			23.65	
	6/24/2004	26.54	4.56			21.98	
	9/22/2004	26.54	6.31			20.23	
	12/7/2004	26.54	3.58			22.96	
	3/28/2005	26.54	2.25			24.29	
	5/9/2005	26.54	3.19			23.35	
Pond 8 Outfall N	3/30/2005	40.01	-0.05			40.06	
	5/9/2005	40.01	-0.18			40.19	
Pond 8 Outfall S	3/30/2005	39.91	-0.25			40.16	
	5/9/2005	39.91	-0.30			40.21	

TABLE 2

GROUND WATER ELEVATION DATA
 Georgia-Pacific California Wood Products Manufacturing Facility
 90 West Redwood Avenue, Fort Bragg, California

Location	Date	Reference Elevation (feet)	Depth To Water	Depth To LPH (feet)	LPH Thickness (feet)	Ground Water Elevation (feet)	Notes
MW-5.1	1/29/2004	58.32	9.95			48.37	
	6/24/2004	58.32	11.14	11.13	0.01	47.19	Used LPH density 0.81
	9/22/2004	58.32	12.08	12.07	0.01	46.25	Used LPH density 0.81
	12/7/2004	58.32	10.87	10.86	0.01	47.46	Used LPH density 0.81
	3/28/2005	58.32	9.71			48.61	
	5/9/2005	58.32	9.84			48.48	
MW-5.2	1/29/2004	59.61	1.26			58.35	
	6/24/2004	59.61	2.30			57.31	
	9/22/2004	59.61	2.80			56.81	
	12/7/2004	59.61	2.50			57.11	
	3/28/2005	59.61	0.85			58.76	
	5/9/2005	59.61	1.03			58.58	
MW-5.3	1/29/2004	56.71	8.77			47.94	
	6/25/2004	56.71	10.09			46.62	
	9/22/2004	56.71	11.28			45.43	
	12/7/2004	56.71	10.21			46.50	
	3/28/2005	56.71	6.65			50.06	
	5/9/2005	56.71	6.56			50.15	
MW-5.4	1/29/2004	58.99	3.97			55.02	
	6/24/2004	58.99	4.40			54.59	
	9/22/2004	58.99	5.35			53.64	
	12/7/2004	58.99	4.64			54.35	
	3/28/2005	58.99	3.31			55.68	
	5/9/2005	58.99	3.29			55.70	
MW-5.5	1/29/2004	57.56	8.33			49.23	
	6/25/2004	57.56	9.80			47.76	
	9/22/2004	57.56	10.95			46.61	
	12/7/2004	57.56	10.49			47.07	
	3/28/2005	57.56	8.04			49.52	
	5/9/2005	57.56	7.78			49.78	
MW-5.6	1/29/2004	50.07	11.20			38.87	
	6/24/2004	50.07	12.31			37.76	
	9/22/2004	50.07	13.72			36.35	
	12/7/2004	50.07	11.59			38.48	
	3/28/2005	50.07	10.69			39.38	
	5/9/2005	50.07	11.04			39.03	
MW-5.7	1/29/2004	44.83	4.89			39.94	
	6/24/2004	44.83	5.71			39.12	
	9/22/2004	44.83	6.10			38.73	
	12/7/2004	44.83	5.10			39.73	
	3/28/2005	44.83	4.33			40.50	
	5/9/2005	44.83	4.52			40.31	
MW-5.8	1/29/2004	45.62	5.18			40.44	
	6/24/2004	45.62	8.94			36.68	
	9/22/2004	45.62	9.96			35.66	
	12/7/2004	45.62	4.68			40.94	
	3/28/2005	45.62	4.23			41.39	
	5/9/2005	45.62	4.31			41.31	
MW-5.9	1/29/2004	31.32	4.34			26.98	
	6/24/2004	31.32	8.62			22.70	
	9/22/2004	31.32	13.27			18.05	
	12/7/2004	31.32	5.45			25.87	
	3/28/2005	31.32	3.18			28.14	
	5/9/2005	31.32	3.16			28.16	

TABLE 2

GROUND WATER ELEVATION DATA
 Georgia-Pacific California Wood Products Manufacturing Facility
 90 West Redwood Avenue, Fort Bragg, California

Location	Date	Reference Elevation (feet)	Depth To Water	Depth To LPH (feet)	LPH Thickness (feet)	Ground Water Elevation (feet)	Notes
MW-7.1	1/28/2004	54.03	6.26			47.77	
	6/23/2004	54.03	6.44			47.59	
	9/22/2004	54.03	6.66			47.37	
	12/7/2004	54.03	6.47			47.56	
	3/28/2005	54.03	5.92			48.11	
	5/9/2005	54.03	5.94			48.09	
MW-10.1	1/27/2004	78.82	16.98			61.83	
	6/23/2004	78.82	19.08			59.74	
	8/17/2004	78.82	19.65			59.16	
	9/22/2004	78.82	20.04			58.78	
	12/7/2004	78.82	20.00			58.82	
	3/28/2005	78.82	17.44			61.38	
	5/9/2005	78.82	17.84			60.98	
MW-10.2	1/27/2004	70.69	7.91			62.78	
	6/23/2004	70.69	9.70			60.99	
	8/17/2004	70.69	10.30			60.39	
	9/22/2004	70.69	10.76			59.93	
	12/7/2004	70.69	10.55			60.14	
	3/28/2005	70.69	7.07			63.62	
	5/9/2005	70.69	8.53			62.16	
MW-10.3	1/27/2004	71.62	25.99			45.63	
	6/23/2004	71.62	-999.00			Dry	
	8/17/2004	71.62	-999.00			Dry	
	9/22/2004	71.62	-999.00			Dry	
	12/7/2004	71.62	-999.00			Dry	
	3/28/2005	71.62	26.72			44.90	
	5/9/2005	71.62	27.11			44.51	
MW-10.4	1/27/2004	73.42	25.05			48.37	
	6/23/2004	73.42	26.44			46.98	
	8/17/2004	73.42	26.95			46.46	
	9/22/2004	73.42	27.42			46.00	
	12/7/2004	73.42	27.42			46.00	
	3/28/2005	73.42	25.22			48.20	
	5/9/2005	73.42	25.39			48.03	

Notes

Ground water elevation is corrected for the observed LPH thickness using the LPH density stated in the "Notes" column.

Reference elevation (i.e., casing elevation) is in mean sea level.

LPH = liquid phase hydrocarbon

TABLE 3

GROUND WATER ANALYTICAL DATA
TOTAL PETROLEUM HYDROCARBONS, BENZENE, TOLUENE, ETHYLBENZENE, XYLEMES, AND METHYL TERTIARY BUTYL ETHER
 Georgia-Pacific California Wood Products Manufacturing Facility
 90 West Redwood Avenue, Fort Bragg, California

Well	Sample Date	Sample Type	TPH Gasoline (µg/L)	TPH Diesel (µg/L)	TPH Diesel (SGCU) (µg/L)	TPH Motor Oil (µg/L)	TPH Motor Oil (SGCU) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	M,P-Xylenes (µg/L)	O-Xylene (µg/L)	MTBE (µg/L)
MW-10.2	1/27/2004	Primary	NA	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA
	6/23/2004	Primary	NA	NA	<50	NA	<300	NA	NA	NA	NA	NA	NA
	8/17/2004	Primary	<50	NA	<50	NA	<300	3.3	<0.5	<0.5	<0.5	<0.5	<0.5
	9/22/2004	Primary	<50	<50	NA	<300	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/8/2004	Primary	<50	<50	NA	<300	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/30/2005	Primary	<50	NA	<50	NA	<300	<0.5	0.5 uj	<0.5	<0.5	<0.5	<0.5
	3/31/2005	Duplicate	<50	NA	<50	NA	<300	<0.5	0.6 uj	<0.5	<0.5	<0.5	<0.5
	5/13/2005	Primary	<50	NA	<19	NA	<76	<0.04	<0.08	<0.07	<0.2	<0.08	<0.2
MW-10.3	1/27/2004	Primary	NA	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA
MW-10.4	1/27/2004	Primary	NA	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA
	6/23/2004	Primary	NA	NA	<50	NA	<300	NA	NA	NA	NA	NA	NA
	8/17/2004	Primary	<50	NA	<50	NA	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	9/22/2004	Primary	<50	<50	NA	<300	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/8/2004	Primary	<50	<50	NA	<300	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/28/2005	Primary	<50	NA	<50	NA	<300	<0.5	1.8 uj	<0.5	0.7	<0.5	<0.5
	5/12/2005	Primary	<50	NA	<19	NA	<76	<0.04	0.1 J	<0.07	<0.2	<0.08	<0.2
	5/12/2005	Duplicate	<50	NA	<19	NA	<76	<0.04	<0.08	<0.07	<0.2	<0.08	<0.2
1Stop-MW-01	5/12/2005	Primary	<50	NA	<19	NA	<76	<0.04	<0.06	<0.06	<0.1	<0.1	<0.05
1Stop-MW-04	5/12/2005	Primary	<50	NA	NA	NA	NA	0.2 J	<0.06	<0.06	<0.1	<0.1	0.3 J
1Stop-MW-12	5/12/2005	Primary	<50	NA	<19	NA	<76	<0.04	<0.06	<0.06	<0.1	<0.1	<0.05

TABLE 3

GROUND WATER ANALYTICAL DATA
TOTAL PETROLEUM HYDROCARBONS, BENZENE, TOLUENE, ETHYLBENZENE, XYLEMES, AND METHYL TERTIARY BUTYL ETHER
 Georgia-Pacific California Wood Products Manufacturing Facility
 90 West Redwood Avenue, Fort Bragg, California

Well	Sample Date	Sample Type	TPH Gasoline (µg/L)	TPH Diesel (µg/L)	TPH Diesel (SGCU) (µg/L)	TPH Motor Oil (µg/L)	TPH Motor Oil (SGCU) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	M,P-Xylenes (µg/L)	O-Xylene (µg/L)	MTBE (µg/L)
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Notes

Benzene, toluene, ethylbenzene, xylenes, and MTBE analyzed by EPA Method 8260B.

TPH Diesel and TPH Motor Oil analyzed by EPA Method 8015B with SGCU by EPA Method 3630 where noted.

TPH Gasoline analyzed by EPA method 8015B.

"<" = concentration as reported by analytical laboratory is less than the MDL or PQL

µg/L = microgram(s) per liter

EPA = United States Environmental Protection Agency

J or j = estimated value (the analyte was positively identified, but the associated numerical result is an estimate [analytical laboratory estimate = upper-case "J," data

validation qualifier = lower-case "j"])

MDL = Method Detection Limit

MTBE = methyl tertiary butyl ether

N/A = not analyzed

PQL = Practical Quantitation Limit

SGCU = sample preparation by silica gel cleanup

TPH = total petroleum hydrocarbon

u = not detected

uj = not detected; associated numerical value is an estimate of the MDL or PQL

TABLE 4

GROUND WATER ANALYTICAL DATA, OTHER VOLATILE ORGANIC COMPOUNDS
 Georgia-Pacific California Wood Products Manufacturing Facility
 90 West Redwood Avenue, Fort Bragg, California

Well	Sample Date	Sample Type	1,1-DCA (µg/L)	cis-1,2-DCE (µg/L)	Freon 113 (µg/L)	Naph Thalene (µg/L)	PCE (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	Other Volatile Organic Compounds	Result (µg/L)
MW-2.1	6/23/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	9/22/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	12/8/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	3/28/2005	Primary	<0.5	<0.5	<5	<2	<0.5	<05	<0.5		
	5/9/2005	Primary	<0.06	<0.1	<0.1	<0.2	<0.09	<005	<0.07		
MW-2.2	6/23/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	9/22/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5	1,2,4-Trimethylbenzene	0.8
	12/8/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	3/28/2005	Primary	<0.5	<0.5	<5	<2	<0.5	<05	<0.5		
	5/10/2005	Primary	<0.06	<0.1	<0.1	<0.2	<0.09	<005	<0.07		
MW-2.3	6/23/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5	sec-Butylbenzene	0.8
	9/22/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	12/8/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	3/28/2005	Primary	<0.5	<0.5	<5	<2	<0.5	<05	<0.5		
	5/9/2005	Primary	<0.06	<0.1	<0.1	<0.2	<0.09	<005	<0.07		
MW-3.1	9/22/2004	Primary	0.7	0.5	<5.0	<0.5	0.6	<05	<0.5		
	12/8/2004	Primary	1.7	0.7	<5.0	<0.5	1.5	<05	<0.5		
	3/28/2005	Primary	2.7	1.3	<5	<2	2.1	<05	0.8		
	5/10/2005	Primary	2.2	1	<0.1	<0.05	1.7	<004	0.6		
MW-3.2	9/22/2004	Primary	0.9	2.4	<5.0	<0.5	2.2	<0.5	0.8	sec-Butylbenzene	0.8
	12/8/2004	Primary	2.3	5.5	<5.0	<0.5	1.5	<0.5	0.5		
	3/28/2005	Primary	<0.5	3.3	<5	<2	2.1	<0.5	0.6		
	3/28/2005	Duplicate	<0.5	3.4	<5	<2	2.1	<0.5	0.5		
	5/10/2005	Primary	0.4 J	3.4	<0.1	<0.2	1.8	<0.05	0.5 J	sec-Butylbenzene	0.3 J
MW-3.3	9/22/2004	Primary	1.9	0.7	5.1	<0.5	1.8	5.2	<0.5		
	12/8/2004	Primary	0.7	<0.5	<5.0	<0.5	0.9	1.3	<0.5	1,2,4-Trimethylbenzene Isopropylbenzene Propylbenzene	2.3 1.6 1.2
	3/28/2005	Primary	0.8	<0.5	7	<2	1.6	5.4	<0.5		
	5/10/2005	Primary	1.1	0.6	8.5	<0.2	1.9	8.1	0.4 J	1,1-Dichloroethene Chloroform	0.4 J 0.3 J
	5/10/2005	Duplicate	0.8	0.3 J	9.1	<0.05	1.7	7.3	0.3 J	1,1-Dichloroethene Chloroform	0.4 J 0.3 J

TABLE 4

GROUND WATER ANALYTICAL DATA, OTHER VOLATILE ORGANIC COMPOUNDS

Georgia-Pacific California Wood Products Manufacturing Facility
90 West Redwood Avenue, Fort Bragg, California

Well	Sample Date	Sample Type	1,1-DCA (µg/L)	cis-1,2-DCE (µg/L)	Freon 113 (µg/L)	Naph Thalene (µg/L)	PCE (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	Other Volatile Organic Compounds	Result (µg/L)
MW-4.2	1/28/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	6/23/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	9/23/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	12/8/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	3/30/2005	Primary	<0.5	<0.5	<5	<2	<0.5	<05	<0.5		
	5/12/2005	Primary	<0.06	<0.1	<0.1	<0.2	<0.09	<005	<0.07		
MW-4.3	1/28/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	6/24/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	3/30/2005	Primary	<0.5	<0.5	<5	<2	<0.5	<05	<0.5		
	5/12/2005	Primary	<0.06	<0.1	<0.1	<0.2	<0.09	<005	<0.07		
MW-4.4	1/28/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	6/24/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	9/23/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	12/8/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<05	<0.5		
	3/30/2005	Primary	<0.5	<0.5	<5	<2	<0.5	<05	<0.5		
	5/12/2005	Primary	<0.06	<0.1	<0.1	<0.2	<0.09	<005	<0.07		
MW-5.1	1/29/2004	Primary	<0.5	4.1	<5.0	1.6	<0.5	<0.5	2.6	Propylbenzene	0.6
	3/29/2005	Primary	<0.5	4	<5	<2	<0.5	<0.5	2.9		
	5/11/2005	Primary	<0.06	3.3	<0.1	1.2 J	0.5	<0.04	2.9	1,2,4-Trimethylbenzene Isopropylbenzene n-Butylbenzene Propylbenzene sec-Butylbenzene	0.1 J 0.2 J 0.3 J 0.3 J 0.1 J
MW-5.2	1/29/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	6/24/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	9/23/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	12/9/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	3/29/2005	Primary	<0.5	<0.5	<5	<2	<0.5	<0.5	<0.5		
	5/11/2005	Primary	<0.05	<0.08	<0.1	<0.06	<0.1	<0.1	<0.2	Acetone Isopropanol	0.6 Ju 4.1 Ju

TABLE 4

GROUND WATER ANALYTICAL DATA, OTHER VOLATILE ORGANIC COMPOUNDS

Georgia-Pacific California Wood Products Manufacturing Facility
90 West Redwood Avenue, Fort Bragg, California

Well	Sample Date	Sample Type	1,1-DCA (µg/L)	cis-1,2-DCE (µg/L)	Freon 113 (µg/L)	Naph Thalene (µg/L)	PCE (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	Other Volatile Organic Compounds	Result (µg/L)
MW-7.1	9/22/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	12/8/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	3/31/2005	Primary	<0.5	<0.5	<5	<2	<0.5	<0.5	<0.5		
	5/12/2005	Primary	<0.06	<0.2	<0.1	<0.05	<0.1	<0.04	<0.1		
MW-10.1	8/17/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	9/22/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	12/7/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	3/31/2005	Primary	<0.5	<0.5	<5	<2	<0.5	<0.5	<0.5		
	5/13/2005	Primary	<0.06	<0.2	<0.1	<0.05	<0.1	<0.04	<0.1	Acetone Methylene Chloride	1.2 J 0.4 Ju
MW-10.2	8/17/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	9/22/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	12/8/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	3/30/2005	Primary	<0.5	<0.5	<5	<2	<0.5	<0.5	<0.5		
	3/31/2005	Duplicate	<0.5	<0.5	<5	<2	<0.5	<0.5	<0.5		
	5/13/2005	Primary	<0.06	<0.2	<0.1	<0.05	<0.1	<0.04	<0.1	Methylene Chloride	0.3 Ju
MW-10.4	8/17/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	9/22/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	12/8/2004	Primary	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5		
	3/28/2005	Primary	<0.5	<0.5	<5	<2	<0.5	<0.5	<0.5		
	5/12/2005	Primary	<0.06	<0.2	<0.1	<0.05	<0.1	<0.04	<0.1	Acetone Methylene Chloride	1.3 J 0.3 Ju
	5/12/2005	Duplicate	<0.06	<0.2	<0.1	<0.05	<0.1	<0.04	<0.1	Acetone	0.8 J
	5/12/2005	Primary	<0.06	<0.1	<0.1	<0.2	41	<0.05	0.7	Chloroform	0.3 J
1Stop-MW-01	5/12/2005	Primary	<0.06	<0.1	<0.1	<0.2	41	<0.05	0.7		
1Stop-MW-04	5/12/2005	Primary	<0.06	0.6	<0.1	0.3 J	57	<0.05	0.8		
1Stop-MW-12	5/12/2005	Primary	<0.06	0.4 J	<0.1	<0.2	17	<0.05	0.8		

TABLE 4

GROUND WATER ANALYTICAL DATA, OTHER VOLATILE ORGANIC COMPOUNDS

Georgia-Pacific California Wood Products Manufacturing Facility
90 West Redwood Avenue, Fort Bragg, California

Well	Sample Date	Sample Type	1,1-DCA (µg/L)	cis-1,2-DCE (µg/L)	Freon 113 (µg/L)	Naph Thalene (µg/L)	PCE (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	Other Volatile Organic Compounds	Result (µg/L)
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Notes

Results provided where reported concentrations are above the respective MDL.

Samples analyzed by EPA Method 8260B.

"<" = concentration as reported by analytical laboratory is less than the MDL or PQL

µg/L = microgram(s) per liter

1,1,1-TCA = 1,1,1-trichloroethane

1,1-DCA = 1,1-dichloroethane

cis-1,2-DCE = cis-1,2-dichloroethene

EPA = United States Environmental Protection Agency

J or j = estimated value (the analyte was positively identified, but the associated numerical result is an estimate [analytical laboratory estimate = upper-case "J," data

validation qualifier = lower-case "j"])

MDL = Method Detection Limit

PCE = tetrachloroethene

PQL = Practical Quantitation Limit

TCE = trichloroethene

TPH = total petroleum hydrocarbon

u = not detected

uj = not detected; associated numerical value is an estimate of the MDL or PQL

TABLE 5
GROUND WATER ANALYTICAL DATA, SEMI-VOLATILE ORGANIC COMPOUNDS
 Georgia-Pacific California Wood Products Manufacturing Facility
 90 West Redwood Avenue, Fort Bragg, California

Well	Sample Date	Sample Type	2-Methyl-naphthalene (µg/L)	Naphthalene (µg/L)	Penta-chlorophenol (µg/L)	Phenol (µg/L)	2,4,5-Tri-chlorophenol (µg/L)	2,4,6-Tri-chlorophenol (µg/L)	Other Semi-Volatile Organic Compounds	Result (µg/L)
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Notes

Results provided where reported concentrations are above the respective MDL.

Samples analyzed by EPA Method 8270C.

"<" = concentration as reported by analytical laboratory is less than the MDL or PQL

µg/L = microgram(s) per liter

EPA = United States Environmental Protection Agency

J or j = estimated value (the analyte was positively identified, but the associated numerical result is an estimate if analytical laboratory estimate = upper-case "J," data validation qualifier = lower-case "j")

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

u = not detected

uj = not detected; associated numerical value is an estimate of the MDL or PQL

TABLE 9

GROUND WATER ANALYTICAL DATA, DISSOLVED METALS
 Georgia-Pacific California Wood Products Manufacturing Facility
 90 West Redwood Avenue, Fort Bragg, California

Well	Sample Date	Sample Type	Anti-mony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
MW-10.4	12/8/2004	Primary	<60	<5.0	22	<2.0	<5.0	<10	<20	<10	<3.0	<0.20	<20	<20	<5.0	<5.0	<10	79	
	3/30/2005	Primary	<60	<5	39	<2	<5	<10	<20	<10	<3	<0.2	<20	<20	<5	<5	<10	<20	
	3/31/2005	Duplicate	<60	<5	38	<2	<5	<10	<20	<10	<3	<0.2	<20	<20	<5	<5	<10	<20	
	5/13/2005	Primary	<1	1.1	39	<1	<1	1.3	<1	1.4	<1	<0.2	<1	<1	<1	<1	1.4	6.6	
	8/17/2004	Primary	<60	<5.0	180	<2.0	<5.0	<10	<20	<10	<3.0	<0.20	<20	<20	9.8	<5.0	<10	29	
1Stop-MW-01	9/22/2004	Primary	<60	11	150	<2.0	<5.0	<10	<20	<10	<3.0	<0.20	<20	<20	8.6	<5.0	<10	<20	
	12/8/2004	Primary	<60	10	150	<2.0	<5.0	<10	<20	<10	<3.0	<0.20	<20	<20	<5.0	<5.0	<10	62	
	3/28/2005	Primary	<60	8.5	110	<2	<5	<10	<20	<10	<3	<0.2	<20	<20	<5	<5	<10	<20	
	5/12/2005	Primary	<1	8.3	110	<1	<1	<1	<1	2.8	<1	<1	<0.2	<1	<1	<1	1.2	5.5	
	5/12/2005	Duplicate	<1	7.2	100	<1	<1	<1	2.5	1.1	<1	<0.2	<1	<1	<1	<1	1.1	5.2	
1Stop-MW-04	5/12/2005	Primary	<1	1.2	33	<1	<1	1.1	<1	1.4	<1	<0.2	<1	1.2	<1	<1	2	8.5	
1Stop-MW-12	5/12/2005	Primary	<1	1.8	9	<1	<1	1.3	<1	1.2	<1	<0.2	<1	<1	<1	<1	1.9	6.7	
			<1	1.7	3.2	<1	<1	<1	<1	1.3	<1	<0.2	<1	<1	<1	<1	1.6	7.2	

Notes

Samples analyzed by EPA Method 6010B or 7470A through March 2005. Samples analyzed by EPA Method 6020B or 7470A beginning May 2005.

"<" = concentration as reported by analytical laboratory is less than the MDL or PQL

µg/L = microgram(s) per liter

EPA = United States Environmental Protection Agency

J or j = estimated value (the analyte was positively identified, but the associated numerical result is an estimate [analytical laboratory estimate = upper-case "J," data validation qualifier = lower-case "j"])

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

u = not detected

uj = not detected; associated numerical value is an estimate of the MDL or PQL

TABLE 10**GROUND WATER ANALYTICAL DATA, TANNIN AND LIGNIN**

Georgia-Pacific California Wood Products Manufacturing Facility
90 West Redwood Avenue, Fort Bragg, California

Well	Sample Date	Sample Type	Tannins and Lignins (µg/L)
MW-2.1	9/22/2004	Primary	<100
	12/8/2004	Primary	180
	3/28/2005	Primary	2,000
MW-2.2	9/22/2004	Primary	<100
	12/8/2004	Primary	100
	3/28/2005	Primary	<100
MW-2.3	9/22/2004	Primary	<100
	12/8/2004	Primary	<100
	3/28/2005	Primary	<100
MW-3.1	9/22/2004	Primary	<100
	12/8/2004	Primary	<100
	3/28/2005	Primary	<100
MW-3.2	9/22/2004	Primary	360
	12/8/2004	Primary	860
	3/28/2005	Primary	130
	3/28/2005	Duplicate	140
MW-3.3	9/22/2004	Primary	<100
	12/8/2004	Primary	190
	3/28/2005	Primary	<100
MW-3.4	9/23/2004	Primary	310
	12/9/2004	Primary	660
	3/29/2005	Primary	<100
MW-3.5	9/23/2004	Primary	<100
	12/8/2004	Primary	180
	3/29/2005	Primary	<100
MW-3.6	9/23/2004	Primary	<100
	12/9/2004	Primary	230
	3/29/2005	Primary	200
MW-3.7	9/23/2004	Primary	<100
	12/8/2004	Primary	<100
	3/29/2005	Primary	<100
MW-3.8	9/23/2004	Primary	<100
	12/8/2004	Primary	<100
	3/29/2005	Primary	350
MW-3.9	9/23/2004	Primary	<100
	12/8/2004	Primary	190
	3/29/2005	Primary	180
MW-4.1	9/23/2004	Primary	2,200
	12/8/2004	Primary	4,500
	3/30/2005	Primary	4,300
MW-4.2	9/23/2004	Primary	2,000
	12/8/2004	Primary	1,900
	3/30/2005	Primary	2,400
MW-4.3	3/30/2005	Primary	1,900

TABLE 10**GROUND WATER ANALYTICAL DATA, TANNIN AND LIGNIN**

Georgia-Pacific California Wood Products Manufacturing Facility
90 West Redwood Avenue, Fort Bragg, California

Well	Sample Date	Sample Type	Tannins and Lignins (µg/L)
MW-4.4	9/23/2004	Primary	720
	12/8/2004	Primary	2,000
	3/30/2005	Primary	1,100
MW-5.1	3/29/2005	Primary	2,800
MW-5.2	9/23/2004	Primary	<100
	12/9/2004	Primary	120
	3/29/2005	Primary	<100
MW-5.3	9/23/2004	Primary	300
	12/9/2004	Primary	620
	3/29/2005	Primary	2,700
	3/29/2005	Duplicate	2,400
MW-5.4	9/23/2004	Primary	480
	12/9/2004	Primary	620
	3/29/2005	Primary	1,400
MW-5.5	9/22/2004	Primary	1,300
	12/9/2004	Primary	1,600
	3/29/2005	Primary	6,900
MW-5.6	9/23/2004	Primary	3,000
	12/9/2004	Primary	6,200
	3/30/2005	Primary	4,700
MW-5.7	9/23/2004	Primary	2,300
	12/9/2004	Primary	2,500
	3/30/2005	Primary	1,500
MW-5.8	9/23/2004	Primary	<100
	12/9/2004	Primary	230
	3/30/2005	Primary	120
MW-5.9	9/23/2004	Primary	540
	12/8/2004	Primary	720
	3/30/2005	Primary	950
MW-7.1	9/22/2004	Primary	350
	12/8/2004	Primary	2,000
	3/31/2005	Primary	440
MW-10.1	8/17/2004	Primary	<100
	9/22/2004	Primary	<100
	12/7/2004	Primary	150
	3/31/2005	Primary	<100
MW-10.2	8/17/2004	Primary	<100
	9/22/2004	Primary	<100
	12/8/2004	Primary	380
	3/30/2005	Primary	<100
	3/31/2005	Duplicate	<100
MW-10.4	8/17/2004	Primary	7,400
	9/22/2004	Primary	2,700
	3/28/2005	Primary	3,700

TABLE 10

GROUND WATER ANALYTICAL DATA, TANNIN AND LIGNIN

Georgia-Pacific California Wood Products Manufacturing Facility
90 West Redwood Avenue, Fort Bragg, California

Well	Sample Date	Sample Type	Tannins and Lignins ($\mu\text{g/L}$)
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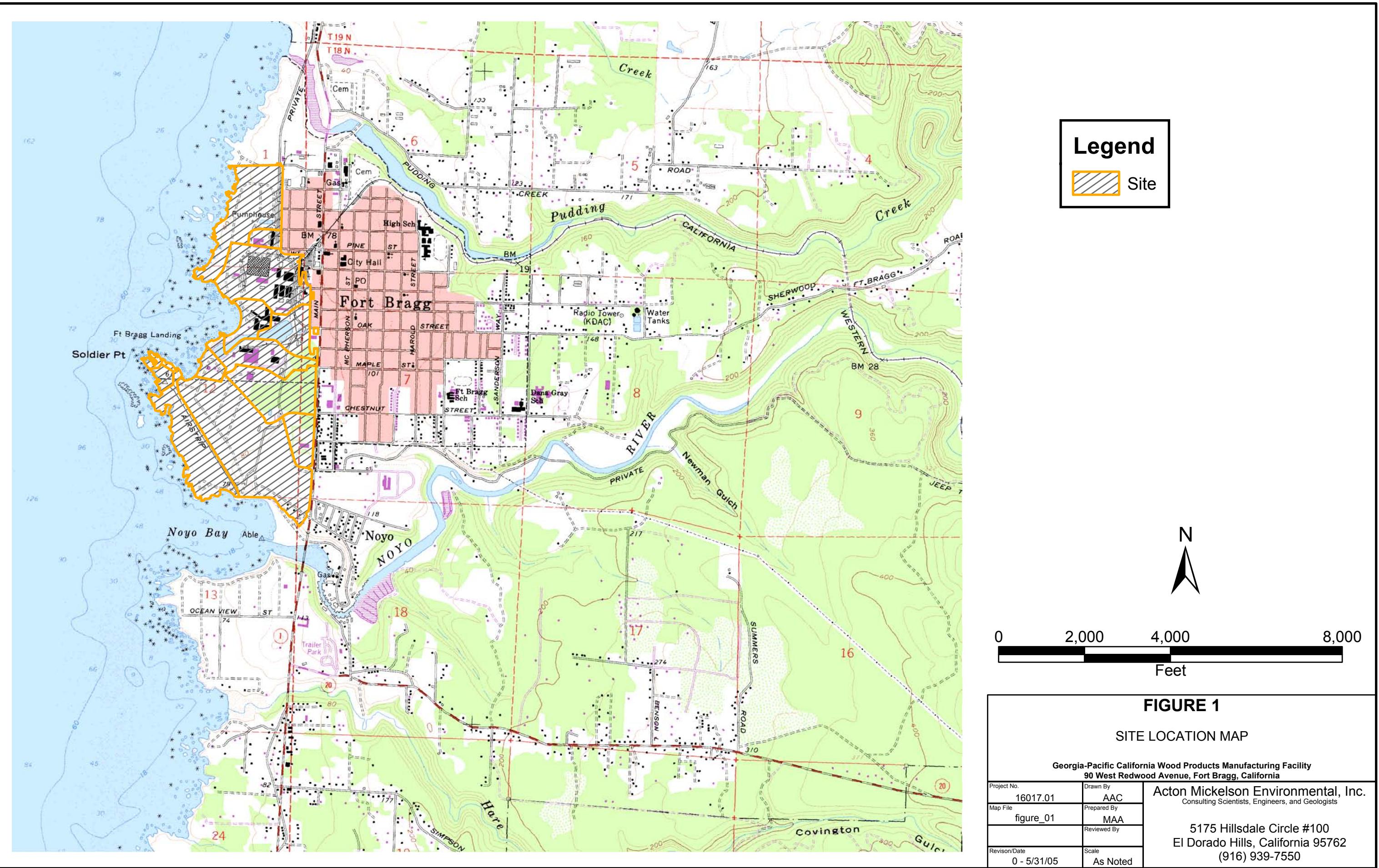
Notes

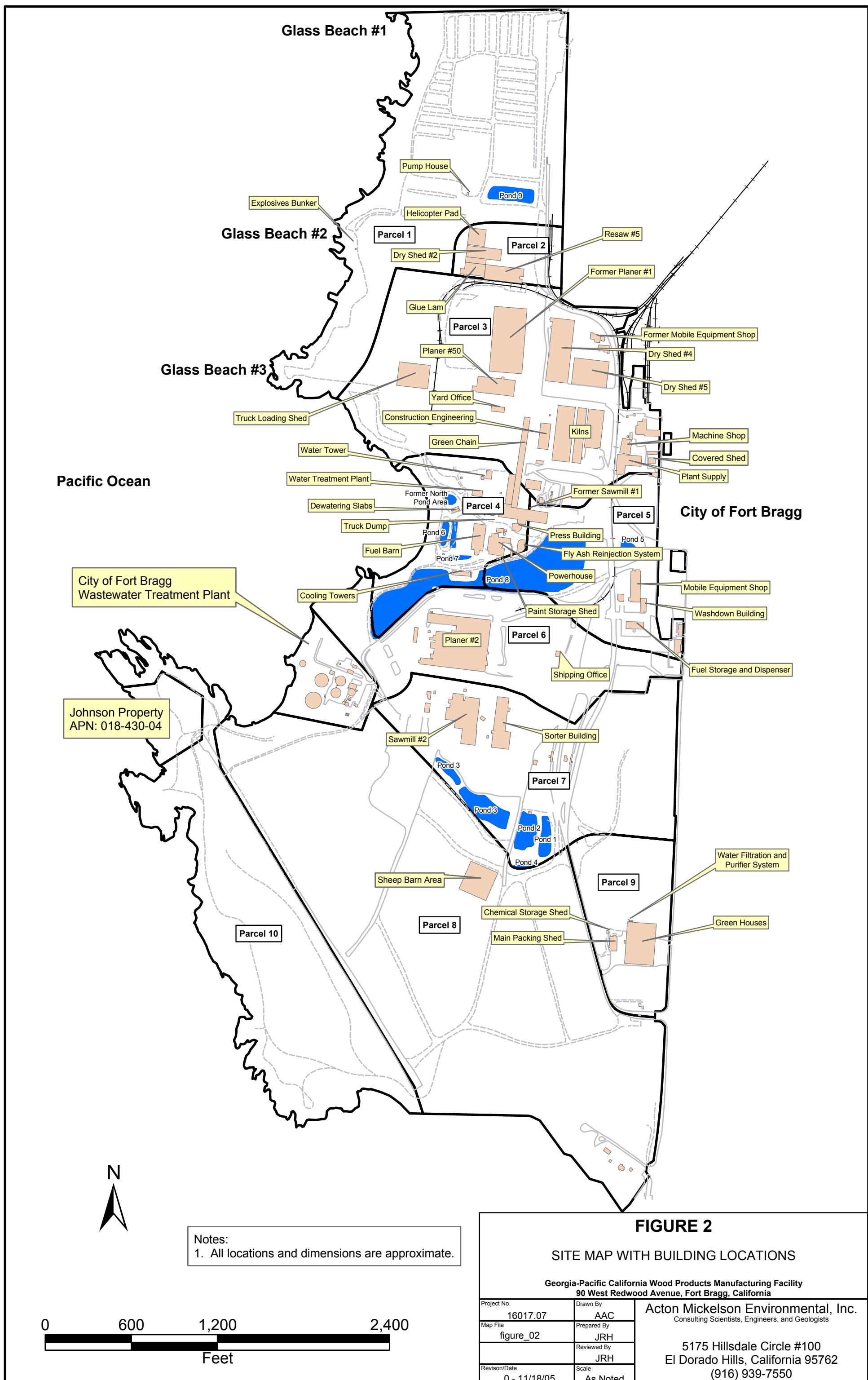
Samples analyzed by EPA Method 5550B.

"<" = concentration as reported by analytical laboratory is less than the MDL or PQL

$\mu\text{g/L}$ = microgram(s) per liter

EPA = United States Environmental Protection Agency





Legend

- Monitoring Well Location and Designation
- Facility Structure
- Pond
- Parcel Boundary

Notes:
1. All locations and dimensions are approximate.

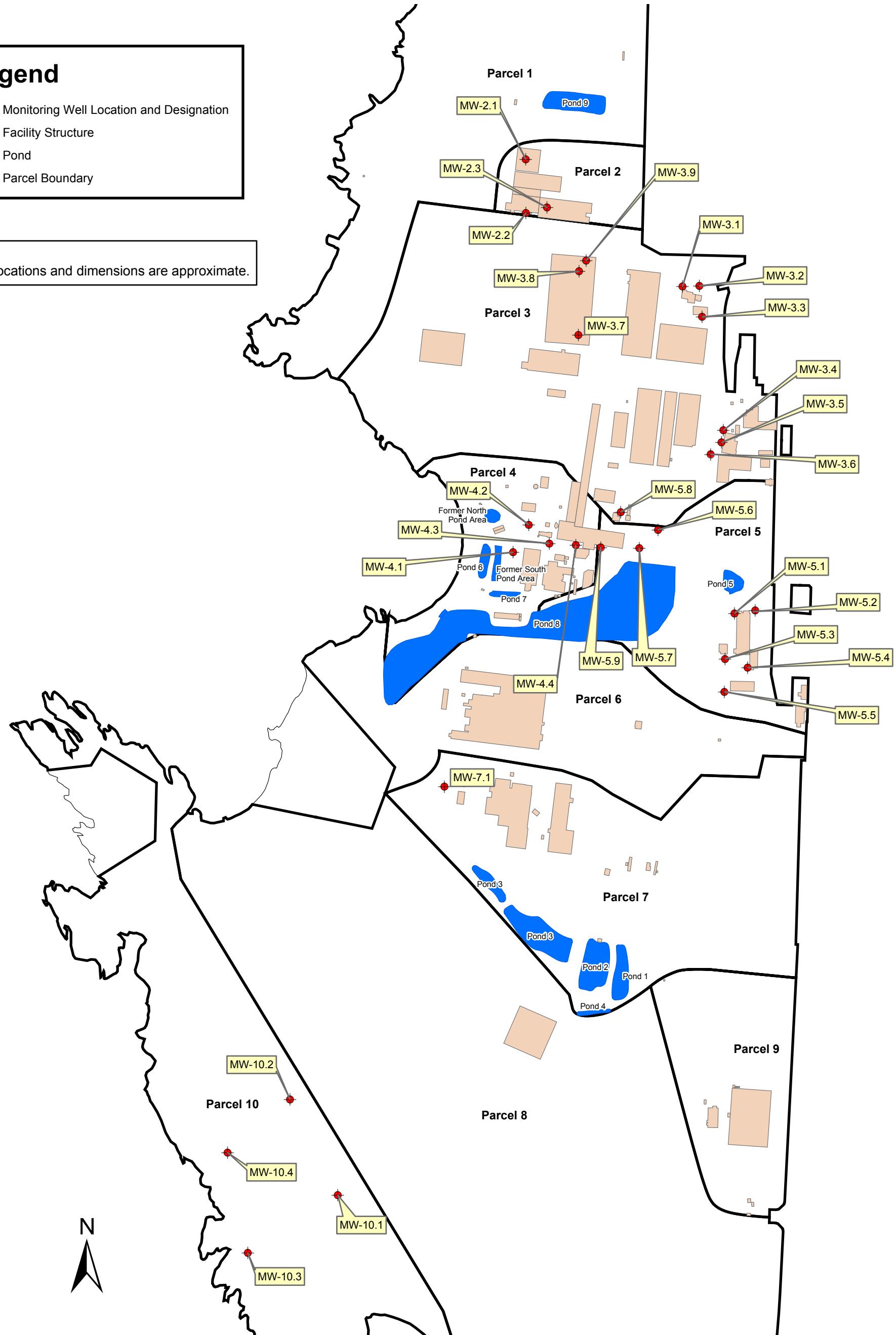


FIGURE 3

GROUND WATER MONITORING WELL LOCATIONS

Georgia-Pacific California Wood Products Manufacturing Facility
90 West Redwood Avenue, Fort Bragg, California

Project No. 16017.01	Drawn By AAC	Acton Mickelson Environmental, Inc.
Map File figure_03	Prepared By JRH	Consulting Scientists, Engineers, and Geologists
	Reviewed By JRH	
Revision/Date 0 - 11/18/05	Scale As Noted	5175 Hillsdale Circle #100 El Dorado Hills, California 95762 (916) 939-7550

0 500 1,000 2,000
Feet

Legend

- Monitoring Well Location and Designation
- Ground Water Elevation Contour in Feet Above Mean Sea Level
- [56.38] Ground Water Elevation in Feet Above Mean Sea Level
- Facility Structure
- Parcel Boundary

Notes:
1. All locations and dimensions are approximate.

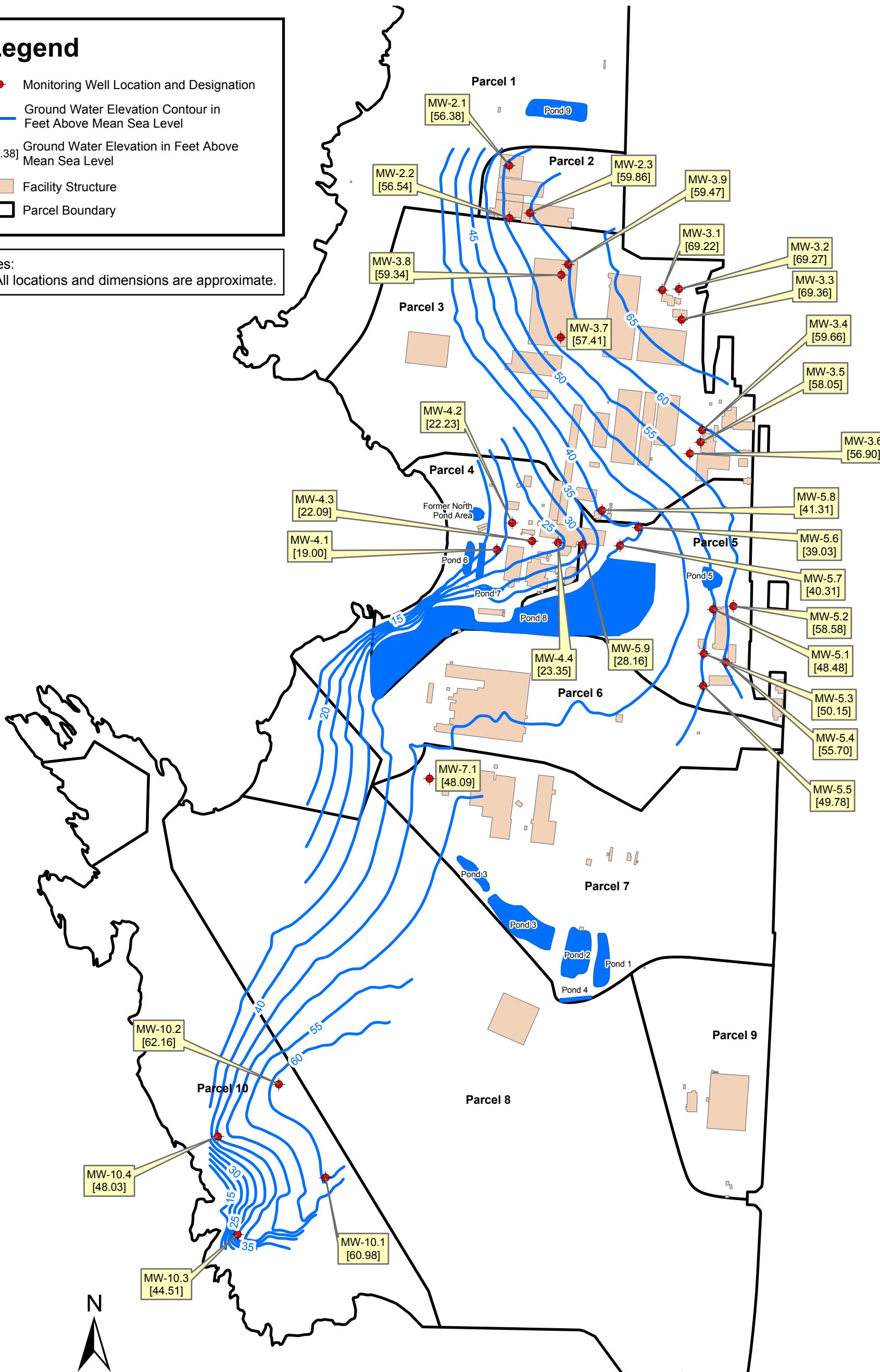


FIGURE 4

GROUND WATER ELEVATION CONTOUR MAP
MAY 9, 2005

Georgia-Pacific California Wood Products Manufacturing Facility
90 West Redwood Avenue, Fort Bragg, California

Project No. 16017.01	Drawn By AAC	Acton Mickelson Environmental, Inc. Consulting Scientists, Engineers, and Geologists
Map File figure_04	Prepared By JRH	
	Reviewed By JRH	
Revision/Date 0 - 11/18/05	Scale As Noted	

5175 Hillsdale Circle #100
El Dorado Hills, California 95762
(916) 939-7550

0 500 1,000 2,000
Feet